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1 Speeding up construction of PMR quadtree-based spatial indexes

Gisli R. Hjaltason, Hanan Samet

October 2002   The VLDB Journal — The International Journal on Very Large Data Bases , Volume 11 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (355.72 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 7,   Downloads (12 Months): 98,   Citation Count: 3

Spatial indexes, such as those based on the quadtree, are important in spatial databases for efficient execution of queries involving spatial constraints, especially when the queries involve spatial joins. In this paper we present a number of techniques ...

Keywords: Bulk-loading, I/O, Spatial indexing

2 Approximate query processing using wavelets

Kaushik Chakrabarti, Minos Garofalakis, Rajeev Rastogi, Kyuseok Shim

September 2001   The VLDB Journal — The International Journal on Very Large Data Bases , Volume 10 Issue 2-3

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (390.24 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 90,   Citation Count: 20

Approximate query processing has emerged as a cost-effective approach for dealing with the huge data volumes and stringent response-time requirements of today's decision support systems (DSS). Most work in this area, however, has so far been limited ...

Keywords: Approximate query answers, Data synopses, Query processing, Wavelet decomposition

3 Flexible control of downloaded executable content

Trent Jaeger, Atul Prakash, Jochen Liedtke, Nayeem Islam

May 1999   Transactions on Information and System Security (TISSEC) , Volume 2 Issue 2

Publisher: ACM

Full text available: Pdf (297.79 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 86,   Citation Count: 9

We present a security architecture that enables system and application a ccess control requirements to be enforced on applications composed from downloaded executable content. Downloaded executable content consists of messages downloaded from remote ...

Keywords: access control models, authentication, autorization machanisms, collaborative systems, role-based access control

4 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003   Transactions on Computer Systems (TOCS) , Volume 21 Issue 2

Publisher: ACM

Full text available: Pdf (341.62 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 38,   Downloads (12 Months): 342,   Citation Count: 55

Scalable management and self-organizational capabilities are emerging as central requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

5 The *nesC* language: A holistic approach to networked embedded systems

David Gay, Philip Levis, Robert von Behren, Matt Welsh, Eric Brewer, David Culler

June 2003   PLDI '03: Proceedings of the ACM SIGPLAN 2003 conference on Programming language design and implementation

Publisher: ACM

Full text available: Pdf (177.98 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 42,   Downloads (12 Months): 330,   Citation Count: 177

We present *nesC*, a programming language for networked embedded systems that represent a new design space for application developers. An example of a networked embedded system is a sensor network, which consists of (potentially) thousands of tiny, ...

Keywords: C, TinyOS, components, concurrency, data races, first-order, modules, nesC, programming languages

Also published in:

May 2003 **SIGPLAN Notices** Volume 38 Issue 5

6 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony D. Joseph, Randy H. Katz

March 2002 Wireless Networks , Volume 8 Issue 2/3

Publisher: Kluwer Academic Publishers

Full text available: Pdf (365.68 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 87, Citation Count: 7

The widespread deployment of inexpensive communications technology, computational resources in the networking infrastructure, and network-enabled end devices poses an interesting problem for end users: how to locate a particular network service or device ...

Keywords: location services, name lookup, network protocols, service discovery

7 HydroJ: object-oriented pattern matching for evolvable distributed systems

Keunwoo Lee, Anthony LaMarca, Craig Chambers

November 2003 OOPSLA '03: Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications

Publisher: ACM

Full text available: Pdf (311.06 KB) Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 67, Citation Count: 6

In an evolving software system, components must be able to change independently while remaining compatible with their peers. One obstacle to independent evolution is the *brittle parameter problem*: the ability of two components to communicate can ...

Keywords: HydroJ, XML, distributed systems, dynamic dispatch, object-oriented programming, pattern matching, semi-structured data, software evolution, ubiquitous computing

Also published in:

November 2003 **SIGPLAN Notices** Volume 38 Issue 11

8 Maya: multiple-dispatch syntax extension in Java

Jason Baker, Wilson C. Hsieh

June 2002   PLDI '02: Proceedings of the ACM SIGPLAN 2002 Conference on Programming language design and implementation

Publisher: ACM

Full text available: Pdf (152.75 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 47, Citation Count: 13

We have designed and implemented Maya, a version of Java that allows programmers to extend and reinterpret its syntax. Maya generalizes macro systems by treating grammar productions as generic functions, and semantic actions on productions as multimethods ...

Keywords: Java, generative programming, macros, metaprogramming

Also published in:

May 2002 **SIGPLAN Notices** Volume 37 Issue 5

9 Composing Web services on the Semantic Web

Brahim Medjahed, Athman Bouguettaya, Ahmed K. Elmagarmid

November 2003   The VLDB Journal — The International Journal on Very Large Data Bases , Volume 12 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (1.29 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 375, Citation Count: 34

Service composition is gaining momentum as the potential *silver bullet* for the envisioned *Semantic Web*. It purports to take the Web to unexplored efficiencies and provide a flexible approach for promoting all types of activities in tomorrow's ...

Keywords: Ontology, Semantic Web, Service composition, Web services

10 QuickTime VR: an image-based approach to virtual environment navigation

Shenchang Eric Chen

September 1995   SIGGRAPH '95: Proceedings of the 22nd annual conference on Computer graphics and interactive techniques

Publisher: ACM

Full text available: Pdf (347.59 KB)   Additional Information: full citation, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 291, Citation Count: 152

Keywords: environment maps, image registration, image warping, panoramic images, real-time display, view interpolation, virtual reality

11 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo

July 2001   Transactions on Programming Languages and Systems (TOPLAS) , Volume 23 Issue 4

Publisher: ACM

Full text available: Pdf (1.95 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 27,   Downloads (12 Months): 190,   Citation Count: 11

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

12 The Java syntactic extender (JSE)

Jonthan Bachrach, Keith Playford

November 2001   OOPSLA '01: Proceedings of the 16th ACM SIGPLAN conference on Object oriented programming, systems, languages, and applications

Publisher: ACM

Full text available: Pdf (198.11 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 5,   Downloads (12 Months): 58,   Citation Count: 15

The ability to extend a language with new syntactic forms is a powerful tool. A sufficiently flexible macro system allows programmers to build from a common base towards a language designed specifically for their problem domain. However, macro facilities ...

Also published in:

November 2001 **SIGPLAN Notices** Volume 36 Issue 11

13 MIL primitives for querying a fragmented world

Peter A. Boncz, Martin L. Kersten

October 1999   The VLDB Journal — The International Journal on Very Large Data Bases , Volume 8 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (261.36 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6,   Downloads (12 Months): 50,   Citation Count: 16

In query-intensive database application areas, like decision support and data mining, systems that use vertical fragmentation have a significant performance advantage. In order to support relational or object oriented applications on top of such a fragmented ...

Keywords: Database systems, Main-memory techniques, Query languages, Query optimization, Vertical fragmentation

14 XMark: a benchmark for XML data management

Albrecht Schmidt, Florian Waas, Martin Kersten, Michael J. Carey, Ioana Manolescu, Ralph Busse

August 2002   VLDB '02: Proceedings of the 28th international conference on Very Large Data Bases

Publisher: VLDB Endowment

Full text available: Pdf (78.72 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 23,   Downloads (12 Months): 110,   Citation Count: 13

While standardization efforts for XML query languages have been progressing, researchers and users increasingly focus on the database technology that has to deliver on the new challenges that the abundance of XML documents poses to data management: validation, ...

15 The <bigwig> project

Claus Brabrand, Anders Møller, Michael I. Schwartzbach

May 2002   Transactions on Internet Technology (TOIT) , Volume 2 Issue 2

Publisher: ACM

Full text available: Pdf (586.33 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 82,   Citation Count: 25

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services. A fundamental aspect of the development of the World Wide Web during the last ...

Keywords: Interactive Web services, program analysis

16 The state of the art in locally distributed Web-server systems

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu

June 2002   Computing Surveys (CSUR) , Volume 34 Issue 2

Publisher: ACM

Full text available: Pdf (1.41 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 82,   Downloads (12 Months): 686,   Citation Count: 33

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

17 Acceptability-oriented computing

Martin Rinard

October
2003

OOPSLA '03: Companion of the 18th annual ACM SIGPLAN conference
on Object-oriented programming, systems, languages, and applications

Publisher: ACM

Full text available: Pdf (321.06
KB)

Additional Information: full citation, abstract, references, cited by,
index terms

Bibliometrics: Downloads (6 Weeks): 4,   Downloads (12 Months): 26,   Citation Count: 6

We discuss a new approach to the construction of software systems. Instead of
attempting to build a system that is as free of errors as possible, the designer
instead identifies key properties that the execution must satisfy to be acceptable
to its users. ...

Keywords: acceptability properties, monitoring, rectification, repair

18 PRIME—toward process-integrated modeling environments: 1

Klaus Pohl, Klaus Weidenhaupt, Ralf Dömges, Peter Haumer, Matthias Jarke, Ralf
Klamma

October
1999

Transactions on Software Engineering and Methodology
(TOSEM) , Volume 8 Issue 4

Publisher: ACM

Full text available: Pdf (1.15
MB)

Additional Information: full citation, abstract, references, cited by,
index terms, review

Bibliometrics: Downloads (6 Weeks): 12,   Downloads (12 Months): 108,   Citation Count: 2

Research in process-centered environments (PCEs) has focused on project
management support and has neglected method guidance for the engineers
performing the (software) engineering process. It has been dominated by the
search for suitable process-modeling ...

Keywords: PRIME, method guidance, process modeling, process-centered
environments, process-integrated environments, process-sensitive tools, tool
integration, tool modeling

19 IP switching—ATM under IP

Peter Newman, Greg Minshall, Thomas L. Lyon

April
1998

IEEE/ACM Transactions on Networking (TON) , Volume 6 Issue 2

Publisher: IEEE Press

Full text available: Pdf (154.32
KB)

Additional Information: full citation, references, cited by, index
terms

Bibliometrics: Downloads (6 Weeks): 3,   Downloads (12 Months): 68,   Citation Count: 16

Keywords: Internet protocol, asynchronous transfer mode, broadband
communication, communication system control, data communication, packet
switching, protocols

20 Burst tries: a fast, efficient data structure for string keys

Steffen Heinz, Justin Zobel, Hugh E. Williams

April 2002   Transactions on Information Systems (TOIS) , Volume 20 Issue 2

Publisher: ACM

Full text available: Pdf (324.84 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review

Bibliometrics: Downloads (6 Weeks): 26,   Downloads (12 Months): 201,   Citation Count: 11

Many applications depend on efficient management of large sets of distinct strings in memory. For example, during index construction for text databases a record is held for each distinct word in the text, containing the word itself and information such ...

Keywords: Binary trees, splay trees, string data structures, text databases, tries, vocabulary accumulation

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